INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32797

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H01H 19/62 US CL : 200/527,314				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 200/527,314, 520-536,523				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	of the relevant passages Relevant to claim No.		
Х	US 6,180,905 B (Pollock et al) 30 January ,2001 (30	1,2,5-7,9-17		
<u>-</u> у			3,4,8,18,19	
y	US 6,069,545 (Van Zeeland) 30 May ,2000 (30.05.2	4,19		
у	US 5,994,654 (Benson) 30 November ,1999 (30.11.	8		
у	US 5,883,346 (Stoken) 16 March 1999 (16.03.1999)		3,18	
Further documents are listed in the continuation of Box C. See patent family annex.				
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date		"T" .	T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
		"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document	t referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the art	
P document published prior to the international filing date but later than the priority date claimed		*&*	document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international search report 1 3 OCT 2005		
31 August 2005 (31.08.2005) Name and mailing address of the ISA/US		Authorized officer Rhondon pall		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Elvin Enad		
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230			ne No. 571-272-1850	

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